明治十九年十二月刊行

明治十九年三月
廿三日出版屆濟

定價金拾三錢

觀測士 海軍大尉 山崎喜勝閎
觀測助手 海軍一等技手 中川將行
同 海軍二等技手 伊藤直温
同 海軍八等技手 小澤兼藏
同 海軍屬 日比翁輔
同 海軍屬 白井正信
同 海軍十等技手 永江董

(Signed) Observer.
Y. Yamazaki.

Assistant.
M. Nakagawa.
" N. Itō.
" K. Ozawa.
" O. Hibi.
" M. Shirai.
" T. Nagaye.

REMARKS.

Day.	
1	B. C., in a.m.; *d.* in p.m.; B. in night; E. at 5.13 p.m.
2	R. 1 a.m.—7.30 a. m.; *f. p.* after 10 a.m.
3	*f. p.* in day; *f. d.* in night.
4	B. C.; *f. p.* in night.
5	*f. p.*
6	C., with R. at intervals; T. at 4.40 a. m.
7	C., R. after 3 p.m.
8	R. to 7 a. m.; *f. p.* after 10 a.m.; C. after 5 p.m.; R at 7.30 p.m.
9	*f. p.*; *f. d.* after 4 p.m. *l. h.* 6 p.m.
10	*d.*
11	C.; R. after 6 a.m.; N. w_2' in p.m.
12	R. to 4.30 p.m.; C.; N. w_2' in day.
13	*f. p.* in a.m.; *f. d.* in p.m.; C. in night.
14	*d.* with R. at intervals in a.m.; *f. p.* in p.m.
15	*d.*; B. frequently in night.
16	B.
17	C.; R. after 11 p.m.
18	R.; N. w_2 in night.
19	C., with R. at intervals in a.m.; *f. p.* in p.m.; N. E. or N. W. w_2 to 5 p.m.
20	*f. p.*; C. 2 p. m.—6 p.m.
21	B. in day; *f. d.* in night; E. at 10.47 p.m.
22	C. in a.m.; *f. p.* in p.m.; F. in all day.
23	*f. p.*
24	*f. p.*
25	*f. p.*
26	C., with R. at intervals to 10 a.m.; R. with T. to 10.35 a. m.—noon; R. ceased at 2 p.m.; *f. p.*
27	*f. p.*
28	B. C. in day; *f. p.* in night.
29	*d.*; R. 1 p.m.—6.30 p.m.
30	C.; R. at 6 a.m.; *f. p.* after 10 a.m.; *d.* after 10 p.m.

記事

一日　午前半晴午後薄陰夜來晴　午前五時十三分頃地震ス

二日　午前一時過ヨリ同七時三十分マテ降雨同十時頃ヨリ漸々快晴

三日　晝間快晴夜間薄晴

四日　半晴夜來快晴

五日　快晴

六日　陰時々微雨午前四時四十分頃雷鳴ス

七日　陰午後三時頃ヨリ降雨

八日　午前七時宿雨歇ミ同十時過ヨリ快晴午後五時頃ヨリ陰同七時三十分頃暫時微雨ス

九日　快晴午後四時頃ヨリ薄晴同六時頃月暈ヲ帶フ

十日　薄陰

十一日　陰午前六時ヨリ降雨午後北風稍强

十二日　午後四時三十分頃宿雨歇ミ後陰晝間北風稍强

十三日　午前快晴午後薄晴夜來陰

十四日　午前薄陰時々微雨午後快晴

十五日　薄陰夜來時々晴

十六日　晴

十七日　陰午後十一時過ヨリ降雨

十八日　續テ降雨夜來北風稍强

十九日　午前陰時々降雨午後快晴同五時マテ北東或ハ北西風稍强

二十日　快晴午後二時頃ヨリ同六時マテ薄陰

廿一日　晝間晴夜間薄晴　午後十時四十七分頃地震ス

廿二日　午前陰午後快晴終日靄氣アリ

廿三日　快晴

廿四日　快晴

廿五日　續テ快晴

廿六日　午前十時マテ陰時々晴同時三十五分ヨリ正午頃マテ雷雨午後二時過雨歇ミ爾後漸ク快晴

廿七日　快晴

廿八日　晝間半晴夜間快晴

廿九日　薄陰午後一時過ヨリ同六時三十分マテ降雨

三十日　陰午前六時過暫時微雨同十時頃ヨリ漸々快晴午後十時過薄陰

地平磁針力
HORIZONTAL INTENSITY.

6th Beginning / Ending time $1^h\ 50^m$ / 3 0 P. M. 六日午後一時五十分ヨリ同三時零分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	180 44 0	43 0	43 30				
	W.					2	174 4 50	4 0	4 25
	E.	3	180 44 20	43 40	44 0				
	W.					4	174 5 20	4 40	5 0
	E.	5	180 45 10	44 20	44 45				
平均 Means		180° 44′ 5″.0				………… 174° 4′ 42″.5			
西 West.	W.					6	174 2 20	1 20	1 50
	E.	7	180 38 20	37 40	38 0				
	W.					8	174 2 20	1 40	2 0
	E.	9	180 39 0	38 10	38 35				
	W.					10	174 2 40	2 0	2 20
平均 Means.		180° 38′17.″5				………… 174° 2′ 3″.3			

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	2 46 24.2	62.8	0.5	59.8	
10	47 8.9				
20	47 53.2				
31	48 41.2				
41	49 26.0				
51	50 10.7				
100	53 50.0				7 25.8
110	54 34.1				25.2
120	55 19.0				25.8
131	56 7.2				26.0
141	56 51.5				25.5
151	57 36.1	62.3	13.2	46.8	25.4
平均 Means.		62.6	…………		7 25.62

平均温度 Mean Temperature $t = 62°.4$ fah.

偏針角 Angle of Deflection $u = 3° 18′ 54″.2$

物振差 Mean effect of 90° of Torsion $v = 1.93$

時儀日差 Daily rate $s = 0^s.82$ losing.

成果 Resulting absolute value X = 6.3125

21st Beginning / Ending time $3^h\ 15^m$ / 4 15 P. M. 廿一日午後三時十五分ヨリ同四時十五分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	299 24 0	23 20	23 40				
	W.					2	292 47 0	46 20	46 40
	E.	3	299 24 20	23 40	24 0				
	W.					4	292 47 0	46 20	46 40
	E.	5	299 24 20	23 40	24 0				
平均 Means.		299° 23′ 53″.3				………… 292° 46′ 40″.0			
西 West.	W.					6	292 43 40	43 0	43 20
	E.	7	299 18 20	17 40	18 0				
	W.					8	292 44 0	43 0	43 30
	E.	9	299 18 40	18 0	18 20				
	W.					10	292 44 20	43 20	43 50
平均 Means.		299° 18′ 10″.0				………… 292° 43′ 33″.3			

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	4 3 7.0	58.5	6.0	54.7	
10	3 51.6				
20	4 36.0				
31	5 25.1				
41	6 9.7				
51	6 54.2				
100	10 33.2				7 26.2
110	11 17.7				26.1
120	12 2.2				26.2
131	12 51.3				26.2
141	13 35.9				26.2
151	14 20.5	57.5	16.6	43.8	26.3
平均 Means.		58.0	…………		7 26.20

平均温度 Mean Temperature $t = 59°.4$ fah.

偏針角 Angle of Deflection $u = 3° 17′ 57.″5$

物振差 Mean effect of 90° of Torsion $v = 2.18$

時儀日差 Daily rate $s = 0.^s70$ losing.

成果 Resulting absolute value X = 6.3178

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 5.7	5	4 8.4	9	4 5.3	13	4 6.8	17	4 4.4	21	4 4.2	25	4 7.9	29	4 7.7
2	4 5.4	6	4 5.8	10	4 7.0	14	4 6.0	18	4 5.2	22	4 8.1	26	4 7.9	30	4 8.4
3	4 6.5	7	4 4.1	11	4 6.5	15	4 4.3	19	4 4.2	23	4 8.1	27	4 8.3		
4	4 8.0	8	4 5.3	12	4 5.8	16	4 5.6	20	4 4.4	24	4 8.8	28	4 7.8		

平均 Mean = 4° 6′.40

磁氣傾差
Magnetic Inclination.

6th Beginning / Ending time 3^h 40^m / 4 20 P. M. 六日午後三時四十分ヨリ同四時二十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 23	49 21	50 22	50 20	49 42	49 40	49 41	49 42	49 8	49 8	49 18	49 22	49 44	49 44	49 30	49 31
49 39	49 38	50 13	50 11	49 53	49 52	49 39	49 37	49 20	49 23	49 19	49 23	49 49	49 48	49 13	49 14
49 31.0	49 29.5	50 17.5	50 15.5	49 47.5	49 46.0	49 40.0	49 39.5	49 14.0	49 15.5	49 18.5	49 22.5	49 46.5	49 46.0	49 21.5	49 22.5
49 30.3		50 16.5		49 46.7		49 39.7		49 14.7		49 20.5		49 46.2		49 22.0	
49 53.4				49 43 2				49 17.6				49 34.1			
49 48.3								49 25.9							

成果 Resulting Dip = 49° 37′.1

21ts. Beginning / Ending time 4^h 40^m / 5 15 P. M. 廿一日午後四時四十分ヨリ同五時十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
50 9	50 8	50 2	50 3	49 34	49 34	49 26	49 25	49 0	49 0	49 1	49 3	49 45	49 46	49 56	50 0
49 54	49 53	49 55	49 54	49 21	49 20	49 28	49 27	48 56	48 56	48 56	48 58	50 0	50 1	49 46	49 48
50 1.5	50 0.5	49 58.5	49 58.5	49 27.5	43 27.0	49 27.0	49 26.0	48 58.0	48 58.0	48 58.5	49 0.5	49 52.5	49 53.5	49 51.0	49 54.0
50 1.0		49 58.5		49 27.3		49 26 5		48 58.0		48 59.5		49 53.0		49 52.5	
49 59.7				49 26.9				48 58.7				49 52.7			
49 43.3								49 25 7							

成果 Resulting Dip=49° 34′.5

天候 WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	1	5	1	1	...	...	...	...	...	4.9	...
2	...	...	1	2	...	...	...	2	...	...	3	4.3	0.46
3	...	...	...	4	...	...	...	...	...	...	4	2.3	...
4	...	...	...	5	1	...	...	...	...	...	2	3.5	...
5	1	...	...	...	2	...	...	...	...	...	5	0.5	...
6	...	...	...	1	...	1	5	1	...	...	...	10.0	...
7	...	...	...	...	...	...	5	3	...	...	...	9.9	...
8	...	...	1	5	...	...	...	2	...	...	...	6.4	0.69
9	...	...	...	3	...	...	...	...	...	...	5	2.8	...
10	...	...	...	4	1	2	1	...	...	...	...	9.5	...
11	...	...	...	2	...	...	...	6	...	...	...	10.0	0.01
12	...	...	...	...	3	...	...	5	...	...	...	10.0	3.26
13	2	...	...	4	...	2	...	...	...	...	...	4.8	0.41
14	...	1	...	2	2	1	...	1	...	...	1	5.1	...
15	...	1	...	2	1	3	...	...	...	...	1	7.8	...
16	1	1	...	5	1	...	...	...	...	...	...	3.5	...
17	...	1	1	1	3	1	...	1	...	...	...	9.5	...
18	...	...	...	...	...	...	...	8	...	...	...	10.0	0.45
19	...	...	1	1	...	1	...	2	...	...	3	5.0	3.82
20	...	3	...	1	2	...	...	...	...	...	2	2.8	...
21	2	1	...	3	...	...	2	...	...	...	...	6.3	...
22	...	...	...	5	...	...	...	...	...	...	3	4.9	...
23	...	...	...	1	...	...	...	...	...	...	7	0.1	...
24	...	2	...	...	...	...	...	...	...	...	6	0.4	...
25	2	...	...	1	...	...	...	...	...	...	5	0.8	...
26	...	...	1	2	...	...	1	1	...	...	3	4.4	...
27	...	...	...	2	...	...	...	...	...	...	6	1.1	0.30
28	2	...	3	1	2	...	...	...	...	...	...	3.6	...
29	...	...	...	2	2	...	1	3	...	...	...	9.4	...
30	...	...	...	5	1	...	...	...	...	...	2	5.0	0.29
合計 Sums.	10	10	9	69	22	12	15	35	...	...	58	...	9.69
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	5.3	...

明治十九年十一月

NOVEMBER. 1886.

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	合計 Total. 時數 Number of Hours.	合計 Total. 速力 Number of Miles.	最強 Strongest. 方位 Directions.	最強 Strongest. 速力 Miles.
1	...	15	158.6	6	55.4	...	...	...	...	...	...	...	...	...	...	3	36.0	24	250.0	N.	15.2
2	...	8	46.8	...	...	...	...	...	...	3	29.1	1	12.1	...	...	12	77.7	24	165.7	N.W.	13.2
3	...	13	140.1	8	120.8	...	...	...	...	...	...	...	...	...	...	3	46.5	24	307.4	N.W.	25.2
4	...	16	169.3	8	66.2	...	...	...	...	...	...	...	...	...	...	...		24	235.5	N.	17.8
5	...	12	70.9	...	...	1	3.6	11	26.2	...	...	...	...	...	...	...		24	100.7	N.	8.3
6	...	14	57.7	...	...	...	...	10	25.2	...	...	...	...	...	...	...	...	24	82.9	N.	6.7
7	...	24	140.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	140.3	N.	8.6
8	...	11	100.5	13	99.4	...	...	...	...	...	...	...	...	...	...	...	...	24	199.9	N.E.	13.2
9	...	8	45.3	4	34.6	12	64.4	...	...	...	...	...	...	...	...	...	...	24	144.3	N.E.	10.0
10	...	24	184.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	184.2	N.	11.2
11	...	24	430.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	430.4	N.	28.2
12	...	10	245.3	...	...	...	...	...	...	...	...	...	...	...	...	14	246.5	24	491.8	N.	28.7
13	...	17	98.6	...	...	...	...	...	...	...	...	...	...	...	...	7	24.7	24	123.3	N.	13.3
14	...	10	77.0	4	28.9	2	10.4	8	18.9	...	...	...	...	...	...	...	...	24	135.2	N.E.	10.3
15	...	17	103.7	4	15.5	3	5.5	...	...	...	...	...	...	...	...	...	...	24	124.7	N.	9.8
16	...	13	82.8	4	19.4	5	20.3	2	8.4	...	...	...	...	...	...	...	...	24	130.9	N.	8.3
17	...	24	144.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	144.2	N.	9.1
18	...	21	325.9	3	47.6	...	...	...	...	...	...	...	...	...	...	...	...	24	373.5	N.	22.9
19	...	13	222.5	4	44.2	...	...	...	...	...	...	...	...	...	...	7	146.9	24	413.6	N.	* 29.9
20	3	13	108.3	...	...	2	10.0	4	14.6	...	...	...	...	...	...	2	16.9	24	149.8	N.	17.5
21	...	12	38.5	...	...	...	...	...	...	...	...	...	...	...	...	12	34.2	24	72.7	N.W.	6.5
22	...	5	20.8	...	...	...	...	...	...	...	...	...	...	...	...	19	59.8	24	80.5	N.W.	6.6
23	...	6	19.7	12	49.0	...	...	...	...	...	...	...	...	...	...	6	16.0	24	84.7	N.E.	8.9
24	...	6	27.4	14	45.0	...	...	...	...	...	...	4	33.2	...	...	...	...	24	105.6	S.W.	9.7
25	1	15	89.1	2	7.7	6	25.2	...	...	...	...	...	...	...	...	...	...	24	122.0	E.	7.5
26	...	24	106.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	106.6	N	8.3
27	...	19	147.7	3	11.3	...	...	...	...	...	...	...	...	...	...	2	14.2	24	173.2	N.	12.8
28	...	13	79.6	1	7.3	...	...	10	29.3	...	...	...	...	...	...	...	...	24	116.2	N.	10.3
29	...	23	141.3	1	6.4	...	...	...	...	...	...	...	...	...	...	...	...	24	147.7	N.	12.8
30	...	24	284.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	284.5	N.	17.0
合計 Sums.	4	454	3907.6	91	658.7	31	139.4	45	122.5	3	29.1	5	45.3	...	...	87	719.4	720	5622.0	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N.	29.9

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	95	91	79	63	70	86	88	88
2	99	99	92	80	50	72	90	71
3	63	81	61	51	49	69	76	77
4	86	82	64	57	60	79	88	93
5	93	87	75	58	56	77	84	93
6	92	94	91	87	80	88	94	96
7	96	95	89	81	78	94	95	97
8	97	95	76	68	61	77	74	73
9	78	83	66	56	57	68	79	96
10	92	91	79	68	67	80	72	79
11	74	76	85	93	98	93	93	98
12	99	100	98	98	91	77	77	83
13	91	94	65	53	56	77	89	67
14	67	77	73	58	55	81	96	93
15	93	86	84	70	69	83	87	93
16	88	92	73	55	60	81	97	91
17	89	85	76	63	64	79	81	80
18	93	95	98	97	99	99	100	99
19	100	80	73	56	52	62	68	60
20	68	82	61	51	58	78	84	85
21	86	98	76	60	58	87	84	86
22	96	94	80	64	61	78	84	95
23	90	93	80	55	48	77	81	87
24	71	83	57	44	51	63	77	85
25	82	84	73	59	57	77	79	88
26	93	84	77	93	87	94	92	81
27	66	68	57	46	46	79	80	76
28	79	84	77	50	65	80	92	92
29	89	89	76	72	93	99	94	93
30	75	66	61	46	47	56	59	62
平均 Means.	86	87	76	65	65	80	84	85

日次 Date.	蒸發力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.356	0.344	0.357	0.393	0.418	0.430	0.393	0.393
2	0.415	0.427	0.465	0.501	0.407	0.431	0.447	0.329
3	0.288	0.295	0.324	0.358	0.366	0.357	0.369	0.357
4	0.351	0.302	0.289	0.317	0.339	0.345	0.327	0.302
5	0.287	0.248	0.325	0.351	0,388	0.371	0.331	0.340
6	0.344	0.362	0.407	0.404	0.416	0.437	0.453	0.446
7	0.430	0.401	0.413	0.430	0.431	0.470	0.454	0.439
8	0.418	0.381	0.327	0.342	0.329	0.328	0.303	0.248
9	0.232	0.218	0.240	0.255	0.273	0.256	0.255	0.257
10	0.246	0.246	0.264	0.293	0,301	0.288	0.285	0.305
11	0.285	0.273	0.286	0.336	0.355	0.330	0.334	0.365
12	0.384	0.384	0.371	0.393	0.369	0.331	0.339	0.355
13	0.344	0.312	0.322	0.343	0.362	0.401	0.412	0.322
14	0.303	0.331	0.345	0.324	0.348	0.377	0.333	0.327
15	0.309	0.279	0.306	0.349	0.375	0.378	0.375	0.368
16	0.340	0.327	0.307	0.306	0.374	0.377	0.377	0.342
17	0.305	0.280	0.294	0.335	0.327	0.353	0.349	0.348
18	0.373	0.353	0.366	0.330	0.318	0.255	0.228	0.219
19	0.236	0.207	0.208	0.202	0.188	0.170	0.166	0.156
20	0.161	0.167	0.185	0.193	0.218	0.241	0.234	0.207
21	0.202	0.192	0.211	0.256	0.305	0.309	0.269	0.256
22	0.269	0.262	0.238	0.257	0.316	0.279	0.276	0.252
23	0.231	0.214	0.266	0.271	0.245	0.261	0.220	0.191
24	0.162	0.152	0.199	0.232	0.242	0.225	0.207	0.187
25	0.172	0.166	0.193	0.243	0.261	0.247	0.245	0.215
26	0.196	0.207	0.225	0.272	0.281	0.295	0.255	0.238
27	0.197	0.197	0.216	0.220	0.237	0.281	0.298	0.241
28	0.207	0.192	0.208	0.231	0.290	0.278	0.255	0.245
29	0.240	0.240	0.262	0.307	0.307	0.306	0.276	0.258
30	0.215	0.189	0.177	0.179	0.199	0.163	0.152	0.148
平均 Means.	0.283	0.272	0.287	0.307	0.320	0.319	0.307	0.289

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	49.6	48.7	49.7	52.3	54.0	54.8	52.3	52.3
2	53.8	54.6	57.0	59.1	53.3	54.9	55.9	47.5
3	44.0	44.6	47.1	49.8	50.4	49.7	50.6	49.7
4	49.2	45.2	44.1	46.5	48.3	48.8	47.4	45.2
5	43.9	40.1	47.2	49 2	52.0	50.8	47.7	48.4
6	48.7	50.1	53.3	53.1	53.9	55 3	56.2	55.8
7	54.8	52.9	53.7	54.8	54.9	57.3	56.3	55.4
8	54.0	51.5	47.3	48.5	47.5	47.4	45.3	40.1
9	38.4	36.8	39.3	40.8	42.6	40.9	40.8	41.0
10	39.9	39.9	41.7	44.4	45.1	44.0	43.7	45.5
11	43.7	42 6	43.8	48.1	49.5	47.6	47.9	50.3
12	51.7	51.7	50.8	52.3	50.6	47.7	48.3	49.5
13	48.7	46.1	46.9	48.6	50.1	52.9	53.6	46 9
14	45.3	47.7	48.8	47.1	49.0	51.2	47.8	47.3
15	45.9	43.2	45.6	49.1	51.1	51.3	51.1	50.3
16	48.4	47.3	45.7	45.6	51.0	51.2	51.2	48.5
17	45.5	43.3	44.5	48.0	47.3	49.4	49.1	49 0
18	50.9	49.4	50.4	47.6	46.6	40.8	37.9	36.9
19	38.8	35.4	35.5	34.8	33.1	30.5	29.8	28.5
20	29.2	30.0	32.6	33.7	36.7	39.4	38.6	35.4
21	34.8	33.5	35.9	40.9	45.5	45.9	42 2	40.9
22	42.2	41.5	39.0	41.0	46.4	43.2	42.9	40.5
23	38.3	36.2	41.9	42.4	39.8	41.4	37.0	33.4
24	29.3	27.8	34.4	38.4	39.5	37.6	35.4	32.9
25	30.8	29.8	33.6	39.6	41.4	40.0	39.8	36.4
26	34 0	35.4	37.6	42.5	43.4	44.6	40.8	39.1
27	34.2	34.2	36.5	37.0	38.9	43.4	44.9	39.4
28	35.4	33.5	35.6	38.2	44.2	43.1	40.8	39.8
29	39.3	39.3	41.5	45.7	45.7	45.6	42.9	41.1
30	36.4	33.2	31.5	31.8	34.4	29.5	27.9	27.1
平均 Means.	42.6	41.5	43.1	45.0	46.2	46.0	44.9	43.1

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	51.2	51.1	56.3	65.0	64.0	59.0	55.9	55.9
2	54.0	55.0	59.3	65.6	73.5	64.0	58.9	56.8
3	56.5	50.3	60.8	68.7	70.7	60.0	58.2	57.0
4	53.4	50.7	56.3	62.0	62.8	55.3	50.7	47.3
5	46.0	43.8	55.0	64.3	67.9	58.0	52.5	50.3
6	50.9	51.9	56.1	57.1	60.3	58.9	57.9	57.0
7	56.0	54.3	57.1	61.0	62.0	59.0	57.8	56.2
8	55.0	52.9	54.8	59.0	61.0	54.7	53.3	48.3
9	44.9	41.5	50.5	56.3	57.8	50.6	46.9	42.1
10	42.1	42.3	48.0	54.8	55.8	51.2	52.7	52.0
11	51.8	50.2	48.0	50.0	50.1	49.5	50.0	50.9
12	51.9	51.7	51.4	52.9	53.0	54.8	55.5	54.6
13	51.1	47.8	58.6	66.2	66.2	60.2	57.0	57.7
14	56.0	55.0	57.7	62.0	65.8	57.0	49.0	49.2
15	48.0	47.0	50.3	59.1	61.3	56.2	55.0	52.3
16	52.0	49.6	54.0	62.0	65.5	57.0	52.2	50.9
17	48.6	47.5	52.0	60.5	59.5	56.0	55.0	55.1
18	52.9	51.0	51.0	48.4	47.0	41.0	37.9	37.1
19	38.0	41.0	43.8	49.8	50.0	42.8	39.5	41.5
20	39.0	34.8	45.5	51.4	51.0	45.8	43.0	39.5
21	38.7	34.0	43.7	54.8	60.4	49.6	46.6	44.8
22	43.3	43.3	45.7	53.0	60.0	50.0	47.5	41.8
23	41.0	38.1	47.8	58.4	59.7	48.3	42.5	37.0
24	37.8	32.1	49.0	60.0	57.7	49.8	42.3	36.5
25	35.9	34.0	41.6	53.5	56.8	46.8	46.0	39.8
26	35.7	40.0	44.5	44.0	47.0	46.3	43.0	44.5
27	45.0	44.0	51.2	58.1	60.0	49.8	51.0	46.6
28	41.3	37.8	42.3	57.0	55.8	49.0	43.0	42.0
29	42.2	42.4	48.7	54.5	47.8	46.0	44.6	43.1
30	44.0	43.6	44.5	52.0	54.2	44.3	41.2	39.3
平均 Means.	46.8	45.3	50.9	57.4	58.8	52.4	49.6	47.6

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.230	30.227	30 259	30.194	30.145	30.134	30.131	30.069
2	29.969	29.922	29.883	29.824	29.789	29.838	29.909	29.918
3	29.969	30.010	30 113	30.109	30.138	30.224	30.296	30.283
4	30.279	30.317	30.334	30 289	30 225	30.241	30.235	30.217
5	30.184	30.172	30.200	30.135	30.105	30.136	30.149	30.148
6	30.123	30.156	30.178	30.150	30.133	30.161	30.153	30.150
7	30.135	30.161	30.211	30.191	30.185	30.204	30.219	30.193
8	30.197	30.219	30.265	30.231	30.212	30.260	30.325	30.328
9	30.359	30.380	30.449	30.429	30 402	30.443	30.454	30.456
10	30.424	30.414	30.441	30.392	30.356	30.368	30.326	30.316
11	30.289	30.305	30.279	30.197	30.135	30.065	30.004	29.946
12	29.868	29.884	29.900	29.851	29.869	29.884	29.904	29.908
13	29.923	29.947	29.997	29.959	29.956	29.957	30.002	30.001
14	29.988	30.001	30.013	30.001	29.989	30.013	30.064	30.064
15	30.068	30.061	30.099	30.052	30.020	30.039	30.063	30.074
16	30.070	30.114	30.167	30.155	30.120	30.160	30.181	30.195
17	30.215	30.247	30.291	30.268	30.247	30.261	30.269	30.216
18	30.214	30.206	30.171	30.094	29.976	29.921	29.896	29.552
19	29.571	29.721	29.881	29.939	30.014	30.132	30.205	30.204
20	30.248	30.301	30.335	30.294	30.254	30.266	30.259	30.219
21	30.166	30.136	30.110	30.042	30 002	29.985	30.005	29.988
22	29.949	29.910	29.925	29.875	29.833	29 841	29.857	29.864
23	29.865	29.865	29.885	29.866	29.838	29.857	29.921	29.935
24	29.961	29.985	30.020	29.995	30 020	30.072	30.157	30.182
25	30.210	30.247	30.295	30.266	30.226	30.226	30.222	30.206
26	30.156	30.088	30.032	29.928	29.858	29.794	29.840	29.915
27	29.972	30.058	30.131	30.133	30.123	30.165	30.163	30.165
28	30.120	30.127	30.164	30.102	30.059	30.066	30.067	30.029
29	29.995	29.966	29.940	29.834	29.773	29.738	29 771	29.819
30	29.843	29.879	29.937	29.894	29.897	29.906	30.004	30.017
平均 Means.	30.085	30.101	30.130	30.090	30.063	30.081	30 102	30.036

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點溫度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	30.174	30.259	30.069	57.3	66.3	50.5	51.7	0.386	83	128.2	86.5	49.5
2	29.882	29.969	29.789	60 9	* 74.3	53.4	54.5	0.428	82	* 135.2	* 95.0	48.2
3	30.143	30.296	29.969	60.3	70.7	49.7	48.2	0.339	66	127·1	87.5	44.0
4	30.267	30.334	30.217	54.8	64.1	47.0	46.8	0.322	76	130.2	87.0	42 0
5	30.154	30.200	30.105	54.7	68.1	43.0	47.4	0.330	78	125.3	88.8	37.9
6	30.151	30.178	30.123	56.3	60.8	48.5	53.3	0.409	90	89.1	71.2	43.9
7	30.187	30.219	30.135	57.9	62.4	53.5	55.0	0.434	91	81.0	69.5	50.8
8	30.255	30.328	30.197	54.9	61.3	47.9	47.7	0.335	78	122.0	79.8	42.0
9	30.421	* 30.456	30.359	48.9	59.8	40.3	40.1	0.248	73	118.2	80.0	37.0
10	30.380	30.441	30.316	49.9	56.2	40.9	43.0	0.279	79	98.6	69.0	37.8
11	30.153	30.305	29.946	50.1	53.9	46.9	46.7	0.321	89	58.0	51.7	45.7
12	29.884	29.908	29.851	53.2	55.5	49.8	50.3	0.366	90	57.0	52.0	49.0
13	29.968	30.002	29.923	58.1	68.3	46.5	49.2	0.352	74	125.2	89.3	40.3
14	30.017	30.064	29.988	56.5	66.2	48.3	48.0	0.336	75	131.7	89.6	41.7
15	30.060	30.099	30.020	53.7	62.6	46.4	48.5	0.342	83	111.8	83.0	41.4
16	30.145	30.195	30.070	55.4	66.2	48.0	48.6	0.344	80	120.4	83.5	43.2
17	30.252	30.291	30 215	54.3	61.1	46.3	47.0	0.324	77	108.3	79.0	43.5
18	30.004	30.214	* 29.552	45.8	56.2	37.0	45.1	0.305	98	57.0	54.9	36.0
19	29.958	30.205	29.571	43.3	51.8	34.9	33.2	0.192	69	116.6	71.5	33.0
20	30.272	30.335	30 219	43.8	54.7	33.4	34.5	0.201	71	114.0	72.8	* 26.3.
21	30.054	30.166	29.985	46.6	61.1	33.6	40.0	0.250	79	66.2	45.8	28.1
22	29.882	29 949	29.833	48.1	61.3	42.3	42.1	0.269	82	118.0	81.5	35.0
23	29.879	29.935	29 838	46.6	59.7	36.5	38.8	0.237	76	117.0	80.0	28.3
24	30 047	30.182	29.861	45.7	61.9	* 31.2	34.4	0.201	66	120.4	84.8	29.5
25	30.237	30.295	30.206	44.3	57.0	32.9	36.4	0.218	75	113.5	77.0	27.0
26	29.951	30.156	29.794	43.1	49.5	35.0	39.7	0.216	88	97 0	68.8	31.3
27	30.114	30.165	29.972	50.7	61.0	42.6	38.6	0.236	65	119.8	79.7	37.1
28	30.092	30.164	30.027	46.0	58.7	37.0	38.8	0.238	77	117.3	77.8	32.0
29	29.855	29.995	29.738	46.2	54.5	39.0	42 6	0.275	88	109.7	76.2	36.5
30	29.930	30.017	29.843	45.4	54.2	39.3	31.5	0.178	59	114 3	71.4	34.1
平均 Means.	30.092	...	...	51.1	...	...	44.1	0.298	79	...	...	...
至極 Max. & Min.	...	30.456	29.552	...	74.3	31.2	...	...	...	135.2	95.0	26.3

凡例

一 風雨鍼ハ氷點及海面ニ改正ス

一 寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一 露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一 風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一 天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一 磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス

一 此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一 偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一 搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

東京

海軍水路部觀象臺

明治十九年十一月

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IN THE

HYDROGRAPHIC OFFICE

TOKIO.